

USSN: 09/904,994  
Attorney Docket: I-2000.566 US  
Response to Office Action of November 21, 2005

### **Amendments to the Specification**

In the substitute specification, please replace the section “BRIEF SUMMARY OF THE DRAWINGS” with the following section:

#### **BRIEF SUMMARY OF THE DRAWINGS**

Figure 1a: Comparison of the nucleic acid sequence encoding UreX and Y, including a short non-coding region bridging the two coding sequences, from *Helicobacter felis* species CS1, SEQ ID NO: 1; Kukka, SEQ ID NO: [[4]] 13; Ds4, SEQ ID NO: [[7]] 10; 2301, SEQ ID NO: [[10]] 4; and 390, SEQ ID NO: [[13]] 7, with the nucleic acid sequence encoding UreA and B, including a short non-coding region bridging the two encoding sequences, from *Helicobacter felis*, ~~SEQ ID NO: 22, pylori, SEQ ID NO: 23 and heilmannii, SEQ ID NO: 24.~~

Figure 1b: Comparison of the amino acid sequence of UreX from *Helicobacter felis* species CS1, SEQ ID NO: [[1]] 2; [[,]] Kukka, SEQ ID NO: [[4]] 14; [[,]] Ds4, SEQ ID NO: [[7]] 11; [[,]] 2301, SEQ ID NO: [[10]] 5; and 390, SEQ ID NO: [[13]] 8, with the amino acid sequences of encoding UreA from *Helicobacter felis*, ~~SEQ ID NO: 22, pylori, SEQ ID NO: 23 and heilmannii, SEQ ID NO: 24.~~

Figure 1c: Comparison of the amino acid sequence of UreY from *Helicobacter felis* species CS1, SEQ ID NO: [[1]] 3; [[,]] Kukka, SEQ ID NO: [[4]] 15; [[,]] Ds4, SEQ ID NO: [[7]] 12; [[,]] 2301, SEQ ID NO: [[10]] 6; and 390, SEQ ID NO: [[13]] 9, with the amino acid sequences of encoding UreB from *Helicobacter felis*, ~~SEQ ID NO: 22, pylori, SEQ ID NO: 23 and heilmannii, SEQ ID NO: 24.~~

Figure 2: Polyacrylamide gel of the expression products UreX and UreY

Lane 7: Biorad broad range marker

Lane 8: Complete cell culture before induction (small scale culture)

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Lane 9: Complete cell culture after induction (small scale culture)

Lane 10: Complete cell culture after induction (large scale culture)

Lane 11: Supernatant after induction (large scale culture).

Lane 12: Biorad pre-stained marker